	QUIZ#1
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	utes. No materials are allowed (<u>Number</u>) indicates weighting. raction with another student is allowed during the exam Cheating will not be tolerated.
n.4-	
4 4	rs are stored in the order in which they are printed out in Endian. (0.4)
2. There	re two ways to represent real numbers in computer. Which one is faster and more accurate? (0.4)
3. From	ip-flops and latches, which one are level sensitive? (0.4)
4. What	re the functions of the accumulator register in a computer arithmetic/logic unit? (1)
	Since and Lord Ud Ups
5 How I	any pins are required for a 16K ×8 RAM with common I/O and one CS input? Consider other pins as well if necessary. (1)
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	CM6209C is a 64K \times 4 static RAM chip. How many of these are needed to form a 256K \times 16 module? (1)
6. The M	CM6209C is a 64K $ imes$ 4 static RAM chip. How many of these are needed to form a 256K $ imes$ 16 module? (1)
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Va	* 1
	ine how many bits each of the following registers can hold? (0.7)
0-4	PC, DAR, IR, DR, ACCA, Address Latch/Buffer, Data Buffer
, /	
8. Assun	e that initially [PC] = C807, [A] = 09, and [C457] = 08, (0.6)
01	C807 BB ; ADDA C808 C4
y - x	C809 57
	At the completion of this instruction, [PC] =
9. Exam	ne the following 68HC11 MPU program and answer the following questions: (2)
	E230 B6 :LDAA
1.5	E231 F6 E232 07
	E233 B0 :SUBA
	E234 F6 E235 07
	E23D 3E :WAI
	(a) How many times does the address F607 appear on the address bus?
	(b) How many times does the MPU perform a memory READ operation except WAI instruction? A WRITE operation?
	Dress Vooite
	(c) How many times is a new word loaded into the IR?
	(d) How many times is a new word loaded into the DR2
	(f) What are the final contents of ACCA? [A] = 1 F
(/	(g) Repeat problem (b) including WAI.
46.	Assume that the following operands are initially stored in data memory: [C350] = 0A, [C351] = 01, [C352] = FF. (2)
1	C300 B6 ;LDAA
	C302 50
	C303 B0 (SUBA) = $0.4 - 0.2 = 0.4$ C304 C3
	C305 51
	C306 27 ;BEQ C307 03
	C308 B7 ;STAA
	C309 C3 C30A 52
	COOB BE ;WAI
	C30C ??

